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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/240,975	01/29/1999	NAOKI MITSUISHI	HIT-2-010-1-	8031

24956 7590 09/25/2002

MATTINGLY, STANGER & MALUR, P.C.  
1800 DIAGONAL ROAD  
SUITE 370  
ALEXANDRIA, VA 22314

EXAMINER

BRAGDON, REGINALD GLENWOOD

ART UNIT	PAPER NUMBER
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2186

DATE MAILED: 09/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

File Copy

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<b>Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/240,975	MITSUISHI, NAOKI	
	<b>Examiner</b>	<b>Art Unit</b>	
	Reginald G. Bragdon	2186	

All participants (applicant, applicant's representative, PTO personnel):

(1) Reginald G. Bragdon. (3) \_\_\_\_\_

(2) John R. Mattingly (#30,293). (4) \_\_\_\_\_

Date of Interview: 24 September 2002 .

Type: a) ☒ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☒ Yes e) ☐ No.

If Yes, brief description: Draft copy of proposed claim amendments .

Claim(s) discussed: 31 .

Identification of prior art discussed: Ugon (4,382,279) .

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet .

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

i) ☐ It is not necessary for applicant to provide a separate record of the substance of the interview(if box is checked).

Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Reginald G. Bragdon  
Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The Examiner indicated that the proposed amendment may not distinguish from Ugon since it appears that Ugon teaches storing evolving parts of an operation program in the memory M2. The Examiner suggested that Applicant consider setting forth in the claims that the entire operational program is stored only in the EEPROM, or that the entire (or significant amounts) of the program are rewritten in a re-write process, which is not anticipated by Ugon. Applicant's representative indicated that the Applicant's would consider the suggestions when preparing a response.

**MATTINGLY, STANGER & MALUR, P.C.**

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PATENT, TRADEMARK  
AND COPYRIGHT LAW

FACSIMILE: (703) 684-1157

(703) 684-1120

Date: September 20, 2002

**FACSIMILE COVER LETTER**

Facsimile Number: (703) 746-5693

DRAFT for  
Interview  
of 9-24-02

To: Examiner R. Bragdon  
Group Art Unit 2186, USPTO

From: Mr. John R. Mattingly  
MATTINGLY, STANGER & MALUR, P.C.

Re: USSN 09/240,975  
Attorney Docket No.: HIT 2 010-1-1

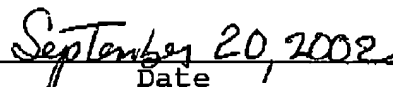
RGB

**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following listed documents are being facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below:

DRAFT AMENDMENT

  
John R. Mattingly  
Reg. No. 30,293

  
September 20, 2002  
Date

Total Number of Pages (including cover sheet): 6

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If the facsimile you receive is incomplete or illegible,  
please CALL (703) 684-1120. Thank you.

HIT 2 010-1-1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

N. MITSUISHI

Serial No. 09/240,975

Group Art Unit: 2186

Filed: January 29, 1999

Examiner: R. Bragdon

For: AN IC CARD HAVING A DEDICATED WRITE CONTROLLER FOR  
WRITING TO INCORPORATED EEPROM ON THE CARD (As Amended)

DRAFT AMENDMENT

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action mailed May 20, 2002,  
please amend the above-identified application as follows.

IN THE CLAIMS

Please rewrite claims 31 and 34 as set forth below.

31. (Amended) A microcomputer on a semiconductor chip,  
the microcomputer comprising:  
a central processing unit;  
an electrically erasable and programmable ROM  
capable of storing a first program as an operation program of  
the central processing unit and data;

Serial No. 09/240,975

HIT 2 010-1-1

a write control circuit which performs a writing of the first program or the data to the ROM under control of the central processing unit;

a memory in which a second program as a write control program for a writing to the ROM is stored; and  
an input and output unit;

wherein the central processing unit performs a writing to the ROM of the first program input from outside of the semiconductor chip via the input and output unit by controlling the write control circuit based on the write control program,

wherein the first program includes an instruction which changes a process of the central processing unit to a process that controls a writing of the ROM based on the write control program stored in the memory, and

wherein the write control program includes an instruction which returns the process of the CPU to a process based on the first program stored in the ROM after completion of the process that controls the writing of the ROM.

34. (Amended) A microcomputer according to claim 31, further comprising:

a data bus to which the central processing unit, the input and output unit, the ROM and the memory are coupled; and  
an address bus to which the central processing unit, the input and output unit, ROM and the memory are coupled.

Serial No. 09/240,975

HIT. 2 010-1-1

REMARKS

As agreed, I will contact you by telephone on September 24 at 1:00 p.m. to discuss the outstanding rejection and the foregoing proposed amendments set forth in draft form.

Respectfully submitted,



John R. Mattingly  
Registration No. 30,293  
Attorney for Applicants

MATTINGLY, STANGER & MALUR  
1800 Diagonal Road, Suite 370  
Alexandria, Virginia 22314  
(703) 684-1120  
Date: September 20, 2002

Serial No. 09/240,975

HIT 2 010-1-1

MARKED UP VERSION OF REWRITTEN CLAIMS

31. (Amended) A microcomputer on a semiconductor chip, the microcomputer comprising:

a central processing unit;

an electrically erasable and programmable ROM capable of storing a first program as an operation program of the central processing unit and data;

a write control circuit which performs a writing of the first program or the data to the ROM under control of the central processing unit;

a memory in which a second program as a write control program for a writing to the ROM is stored; and

an input and output unit;

wherein the central processing unit performs a writing to the ROM of the first program [or the data] input from outside of the semiconductor chip via the input and output unit by controlling the write control circuit based on the write control program,

wherein the [write control] first program includes an instruction which changes a process of the central processing unit to a process that controls a writing of the ROM based on the write control program stored in the memory, and



Serial No. 09/240,975

HIT 2 010-1-1

wherein the write control program includes an instruction which returns the process of the CPU to a process based on the first program stored in the ROM after completion of the process that controls the writing of the ROM.

34. (Amended) A microcomputer according to claim 31, further comprising:

a data bus to which the central processing unit, the input and output unit, the ROM and the memory are coupled; and

an address bus to which the central processing unit, the input and output unit, [the electrically programmable] ROM and the memory are coupled.